

PAGE: 1

**RAW SEQUENCE LISTING
PATENT APPLICATION US/09/033,662**

DATE: 08/08/98
TIME: 15:52:36

INPUT SET: S27966.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/033,662DATE: 08/08/98
TIME: 15:52:37

INPUT SET: S27966.raw

47
48 (i) SEQUENCE CHARACTERISTICS:
49 (A) LENGTH: 666 base pairs
50 (B) TYPE: nucleic acid
51 (C) STRANDEDNESS: both
52 (D) TOPOLOGY: both
53
54 (ii) MOLECULE TYPE: cDNA
55
56
57 (ix) FEATURE:
58 (A) NAME/KEY: CDS
59 (B) LOCATION: 1..663
60
61
62 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
63
64 ATG AGA AGG TGT AGA ATA AGT GGG AGG CCC CCG GCG CCC CCC GGT GTC 48
65 Met Arg Arg Cys Arg Ile Ser Gly Arg Pro Pro Ala Pro Pro Gly Val
66 1 5 10 15
67
68 CCC GCC CAG GCC CCT GTC TCC CAG CCT GAT GCC CCT GGC CAC CAG AGG 96
69 Pro Ala Gln Ala Pro Val Ser Gln Pro Asp Ala Pro Gly His Gln Arg
70 20 25 30
71
72 AAA GTG GTG TCA TGG ATA GAT GTG TAT ACT CGC GCT ACC TGC CAG CCC 144
73 Lys Val Val Ser Trp Ile Asp Val Tyr Thr Arg Ala Thr Cys Gln Pro
74 35 40 45
75
76 CGG GAG GTG GTG GTG CCC TTG ACT GTG GAG CTC ATG GGC ACC GTG GCC 192
77 Arg Glu Val Val Val Pro Leu Thr Val Glu Leu Met Gly Thr Val Ala
78 50 55 60
79
80 AAA CAG CTG GTG CCC AGC TGC GTG ACT GTG CAG CGC TGT GGT GGC TGC 240
81 Lys Gln Leu Val Pro Ser Cys Val Thr Val Gln Arg Cys Gly Gly Cys
82 65 70 75 80
83
84 TGC CCT GAC GAT GGC CTG GAG TGT GTG CCC ACT GGG CAG CAC CAA GTC 288
85 Cys Pro Asp Asp Gly Leu Glu Cys Val Pro Thr Gly Gln His Gln Val
86 85 90 95
87
88 CGG ATG CAG ATC CTC ATG ATC CGG TAC CCG AGC AGT CAG CTG GGG GAG 336
89 Arg Met Gln Ile Leu Met Ile Arg Tyr Pro Ser Ser Gln Leu Gly Glu
90 100 105 110
91
92 ATG TCC CTG GAA GAA CAC AGC CAG TGT GAA TGC AGA CCT AAA AAA AAG 384
93 Met Ser Leu Glu Glu His Ser Gln Cys Glu Cys Arg Pro Lys Lys Lys
94 115 120 125
95
96 GAC AGT GCT GTG AAG CCA GAC AGG GCT GCT ACT CCC CAC CAC CGT CCC 432
97 Asp Ser Ala Val Lys Pro Asp Arg Ala Ala Thr Pro His His Arg Pro
98 130 135 140
99

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100	CAG CCC CGT TCT GTT CCG GGC TGG GAC TCT GCC CCC GGA GCA CCC TCC	480
101	Gln Pro Arg Ser Val Pro Gly Trp Asp Ser Ala Pro Gly Ala Pro Ser	
102	145 150 155 160	
103		
104	CCA GCT GAC ATC ACC CAA TCC CAC TCC AGC CCC AGG CCC CTC TGC CCA	528
105	Pro Ala Asp Ile Thr Gln Ser His Ser Ser Pro Arg Pro Leu Cys Pro	
106	165 170 175	
107		
108	CGC TGC ACC CAG CAC CAC CAG TGC CCT GAC CCC CGG ACC TGC CGC TGC	576
109	Arg Cys Thr Gln His His Gln Cys Pro Asp Pro Arg Thr Cys Arg Cys	
110	180 185 190	
111		
112	CGC TGT CGA CGC CGC AGC TTC CTC CGT TGT CAA GGG CGG GGC TTA GAG	624
113	Arg Cys Arg Arg Ser Phe Leu Arg Cys Gln Gly Arg Gly Leu Glu	
114	195 200 205	
115		
116	CTC AAC CCA GAC ACC TGC AGG TGC CGG AAG CTG CGA AGG TGA	666
117	Leu Asn Pro Asp Thr Cys Arg Cys Arg Lys Leu Arg Arg	
118	210 215 220	
119		
120		
121	(2) INFORMATION FOR SEQ ID NO:2:	
122		
123	(i) SEQUENCE CHARACTERISTICS:	
124	(A) LENGTH: 221 amino acids	
125	(B) TYPE: amino acid	
126	(D) TOPOLOGY: linear	
127		
128	(ii) MOLECULE TYPE: protein	
129		
130	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:	
131		
132	Met Arg Arg Cys Arg Ile Ser Gly Arg Pro Pro Ala Pro Pro Gly Val	
133	1 5 10 15	
134		
135	Pro Ala Gln Ala Pro Val Ser Gln Pro Asp Ala Pro Gly His Gln Arg	
136	20 25 30	
137		
138	Lys Val Val Ser Trp Ile Asp Val Tyr Thr Arg Ala Thr Cys Gln Pro	
139	35 40 45	
140		
141	Arg Glu Val Val Val Pro Leu Thr Val Glu Leu Met Gly Thr Val Ala	
142	50 55 60	
143		
144	Lys Gln Leu Val Pro Ser Cys Val Thr Val Gln Arg Cys Gly Gly Cys	
145	65 70 75 80	
146		
147	Cys Pro Asp Asp Gly Leu Glu Cys Val Pro Thr Gly Gln His Gln Val	
148	85 90 95	
149		
150	Arg Met Gln Ile Leu Met Ile Arg Tyr Pro Ser Ser Gln Leu Gly Glu	
151	100 105 110	
152		

132	Met Arg Arg Cys Arg Ile Ser Gly Arg Pro Pro Ala Pro Pro Gly Val	
133	1 5 10 15	
134		
135	Pro Ala Gln Ala Pro Val Ser Gln Pro Asp Ala Pro Gly His Gln Arg	
136	20 25 30	
137		
138	Lys Val Val Ser Trp Ile Asp Val Tyr Thr Arg Ala Thr Cys Gln Pro	
139	35 40 45	
140		
141	Arg Glu Val Val Val Pro Leu Thr Val Glu Leu Met Gly Thr Val Ala	
142	50 55 60	
143		
144	Lys Gln Leu Val Pro Ser Cys Val Thr Val Gln Arg Cys Gly Gly Cys	
145	65 70 75 80	
146		
147	Cys Pro Asp Asp Gly Leu Glu Cys Val Pro Thr Gly Gln His Gln Val	
148	85 90 95	
149		
150	Arg Met Gln Ile Leu Met Ile Arg Tyr Pro Ser Ser Gln Leu Gly Glu	
151	100 105 110	
152		

**RAW SEQUENCE LISTING
PATENT APPLICATION US/09/033,662**DATE: 08/08/98
TIME: 15:52:38**INPUT SET: S27966.raw**

153 Met Ser Leu Glu Glu His Ser Gln Cys Glu Cys Arg Pro Lys Lys Lys
154 115 120 125
155
156 Asp Ser Ala Val Lys Pro Asp Arg Ala Ala Thr Pro His His Arg Pro
157 130 135 140
158
159 Gln Pro Arg Ser Val Pro Gly Trp Asp Ser Ala Pro Gly Ala Pro Ser
160 145 150 155 160
161
162 Pro Ala Asp Ile Thr Gln Ser His Ser Ser Pro Arg Pro Leu Cys Pro
163 165 170 175
164
165 Arg Cys Thr Gln His His Gln Cys Pro Asp Pro Arg Thr Cys Arg Cys
166 180 185 190
167
168 Arg Cys Arg Arg Arg Ser Phe Leu Arg Cys Gln Gly Arg Gly Leu Glu
169 195 200 205
170
171 Leu Asn Pro Asp Thr Cys Arg Cys Arg Lys Leu Arg Arg
172 210 215 220
173
174
175 (2) INFORMATION FOR SEQ ID NO:3:
176
177 (i) SEQUENCE CHARACTERISTICS:
178 (A) LENGTH: 29 base pairs
179 (B) TYPE: nucleic acid
180 (C) STRANDEDNESS: both
181 (D) TOPOLOGY: linear
182
183 (ii) MOLECULE TYPE: cDNA
184
185
186
187
188 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
189
190 GCATGGATCC CAGCCTGATG CCCCTGGCC 29
191
192 (2) INFORMATION FOR SEQ ID NO:4:
193
194 (i) SEQUENCE CHARACTERISTICS:
195 (A) LENGTH: 30 base pairs
196 (B) TYPE: nucleic acid
197 (C) STRANDEDNESS: both
198 (D) TOPOLOGY: linear
199
200 (ii) MOLECULE TYPE: cDNA
201
202
203
204
205 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

**RAW SEQUENCE LISTING
PATENT APPLICATION US/09/033,662**DATE: 08/08/98
TIME: 15:52:39**INPUT SET: S27966.raw**

206
207 GCATTCTAGA CCCTGCTGAG TCTGAAAAGC 30
208
209 (2) INFORMATION FOR SEQ ID NO:5:
210
211 (i) SEQUENCE CHARACTERISTICS:
212 (A) LENGTH: 29 base pairs
213 (B) TYPE: nucleic acid
214 (C) STRANDEDNESS: both
215 (D) TOPOLOGY: linear
216
217 (ii) MOLECULE TYPE: cDNA
218
219
220
221
222 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
223
224 GACTGCATGC ACCAGAGGAA AGTGGTGTC 29
225
226 (2) INFORMATION FOR SEQ ID NO:6:
227
228 (i) SEQUENCE CHARACTERISTICS:
229 (A) LENGTH: 29 base pairs
230 (B) TYPE: nucleic acid
231 (C) STRANDEDNESS: both
232 (D) TOPOLOGY: linear
233
234 (ii) MOLECULE TYPE: cDNA
235
236
237
238
239 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
240
241 GACTAGATCT CCTTCGCAGC TTCCGGCAC 29
242
243 (2) INFORMATION FOR SEQ ID NO:7:
244
245 (i) SEQUENCE CHARACTERISTICS:
246 (A) LENGTH: 14 amino acids
247 (B) TYPE: amino acid
248 (C) STRANDEDNESS: single
249 (D) TOPOLOGY: Not Relevant
250
251 (ii) MOLECULE TYPE: peptide
252
253
254
255
256 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
257
258 Pro Xaa Cys Val Xaa Xaa Xaa Arg Cys Xaa Gly Cys Cys Asn

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION **US/09/033,662**

DATE: 08/08/98
TIME: 15:52:40

INPUT SET: S27966.raw

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Original Text